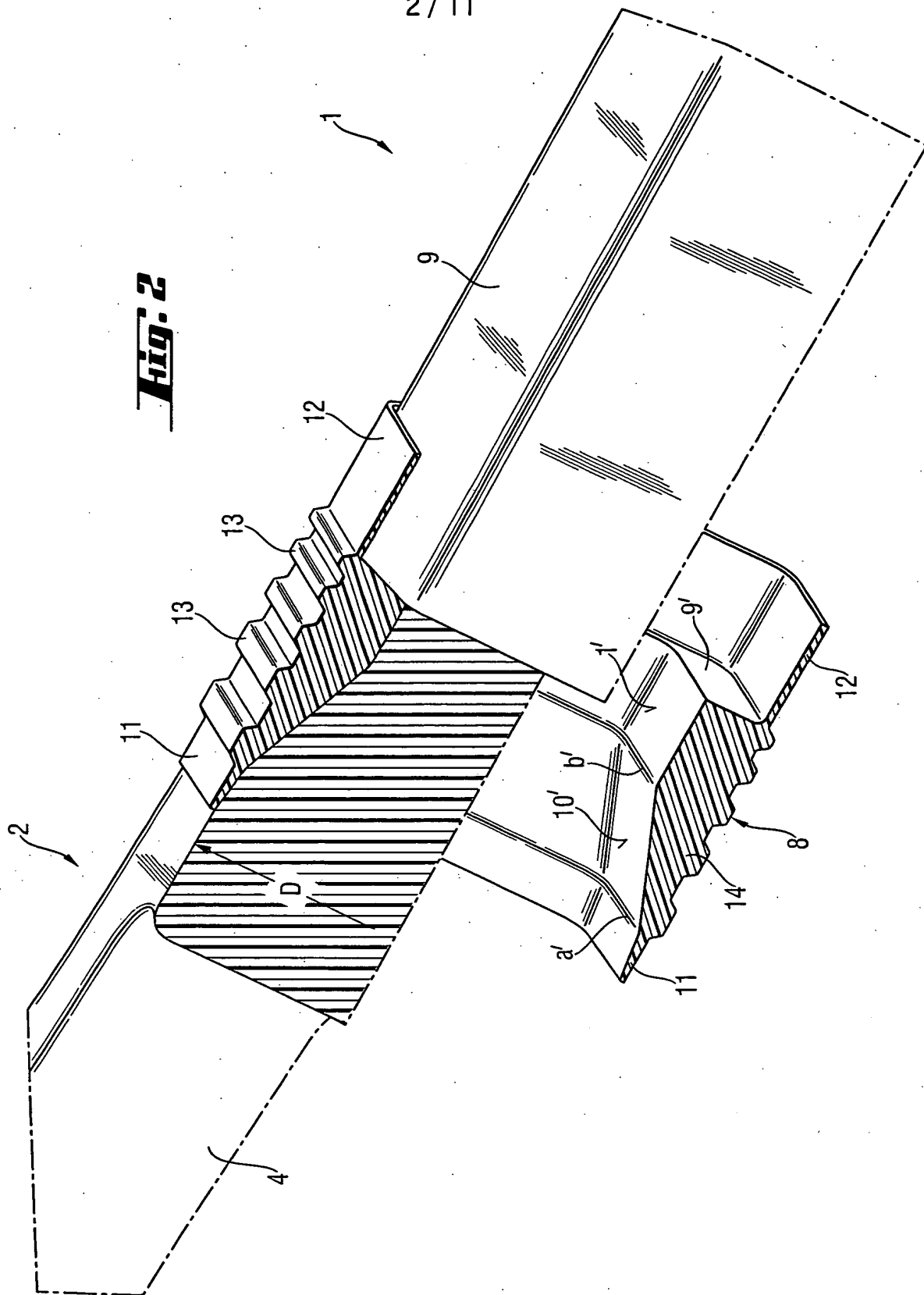


Fig. 2



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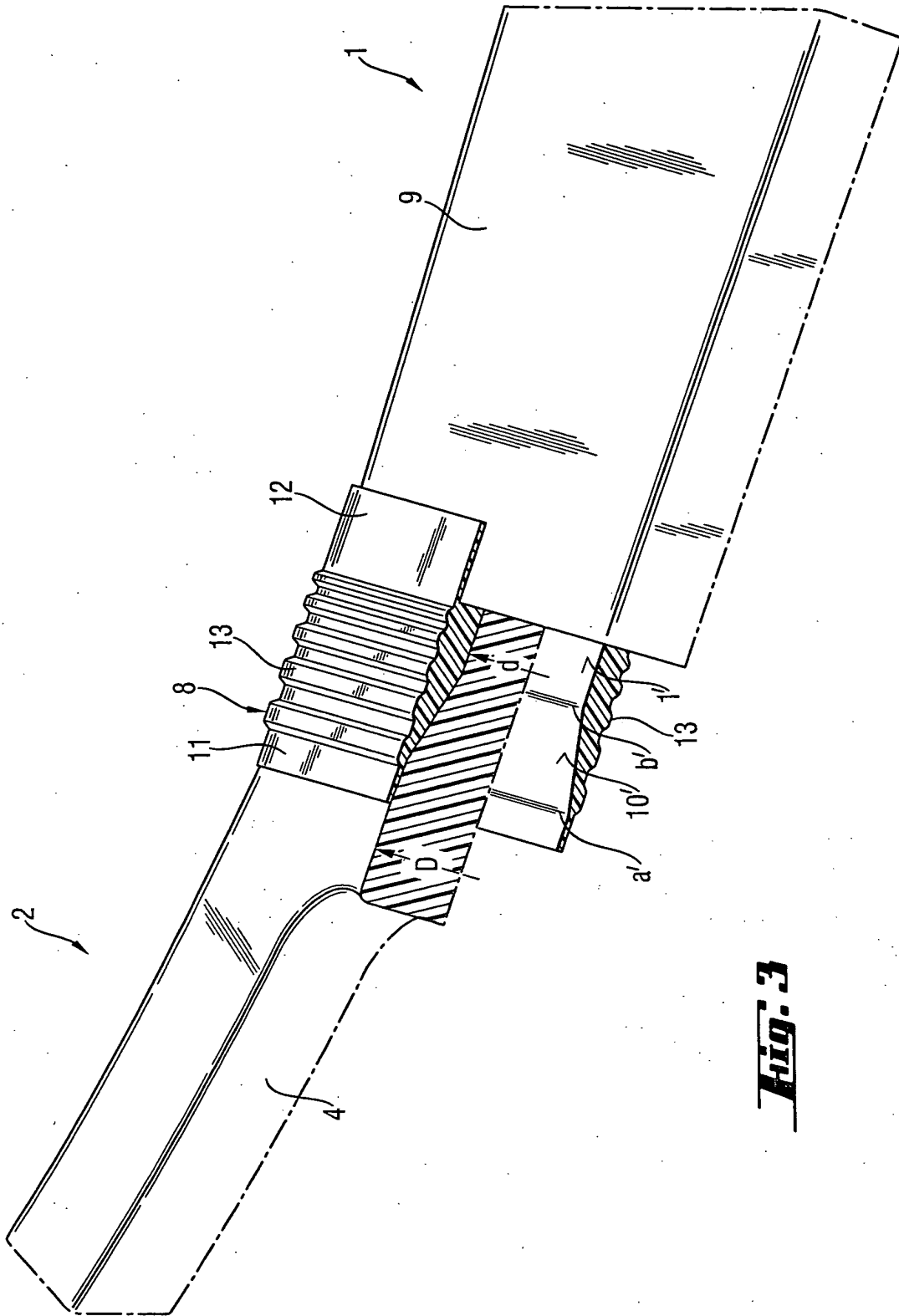


Fig. 3

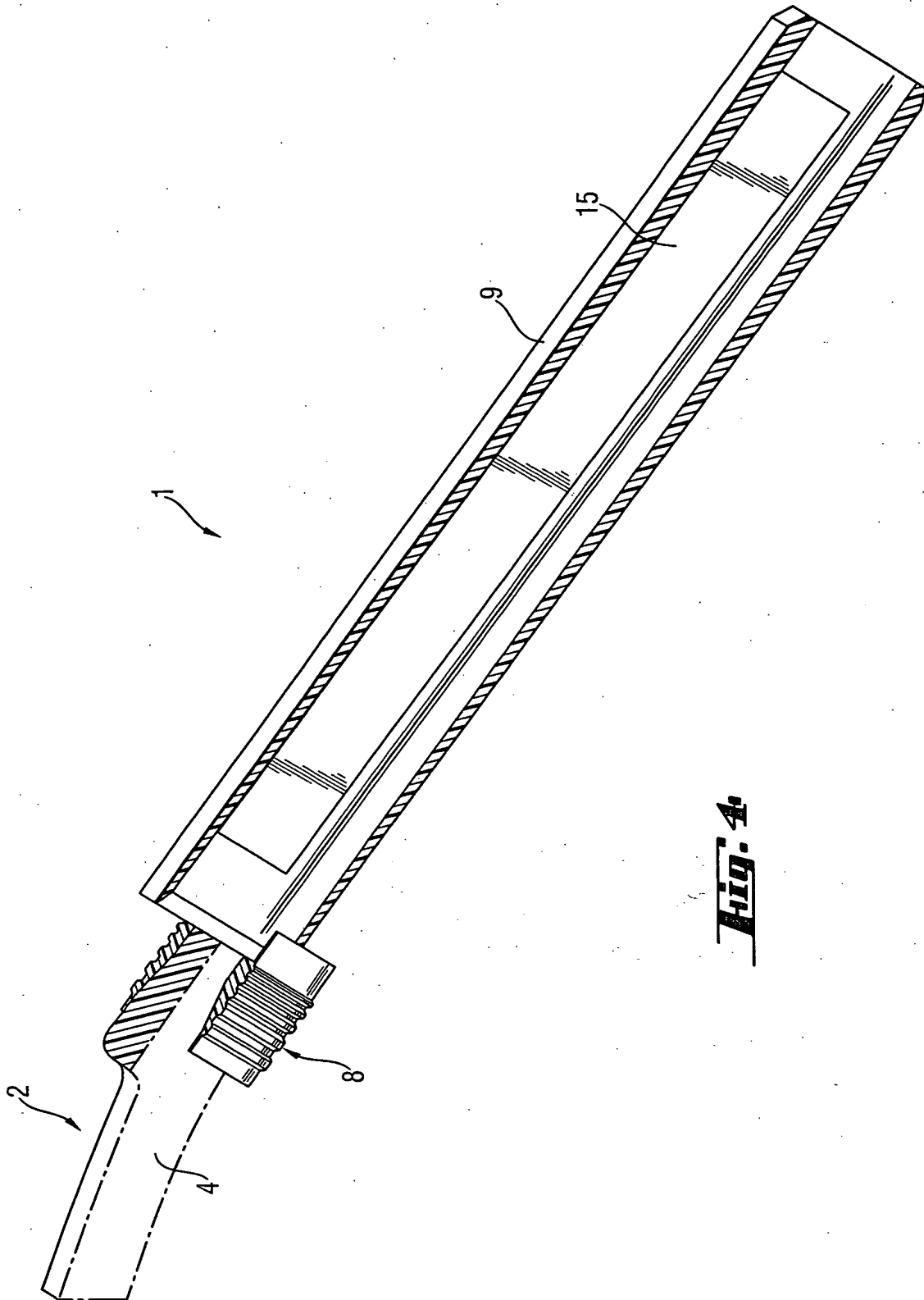


Fig. 4

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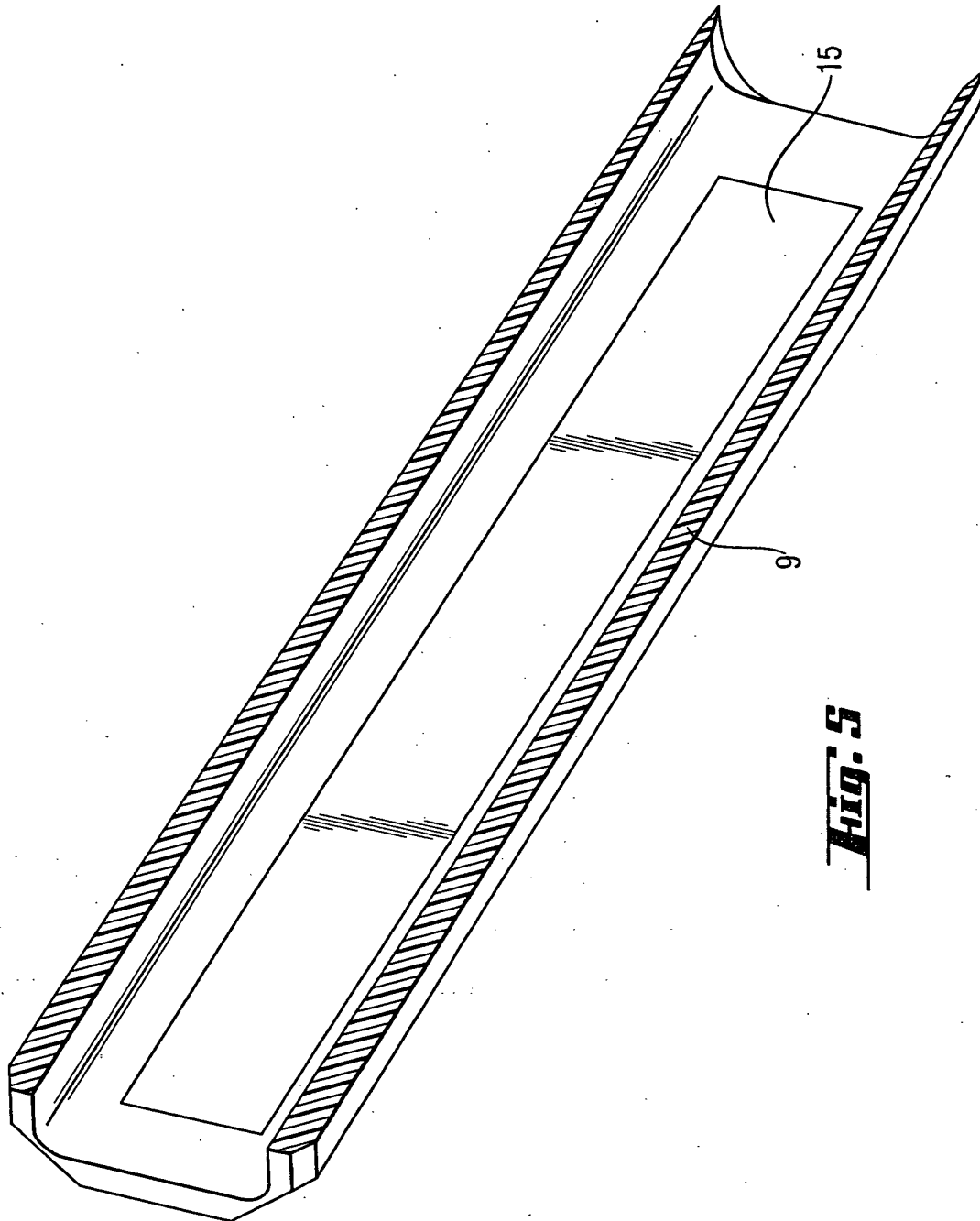
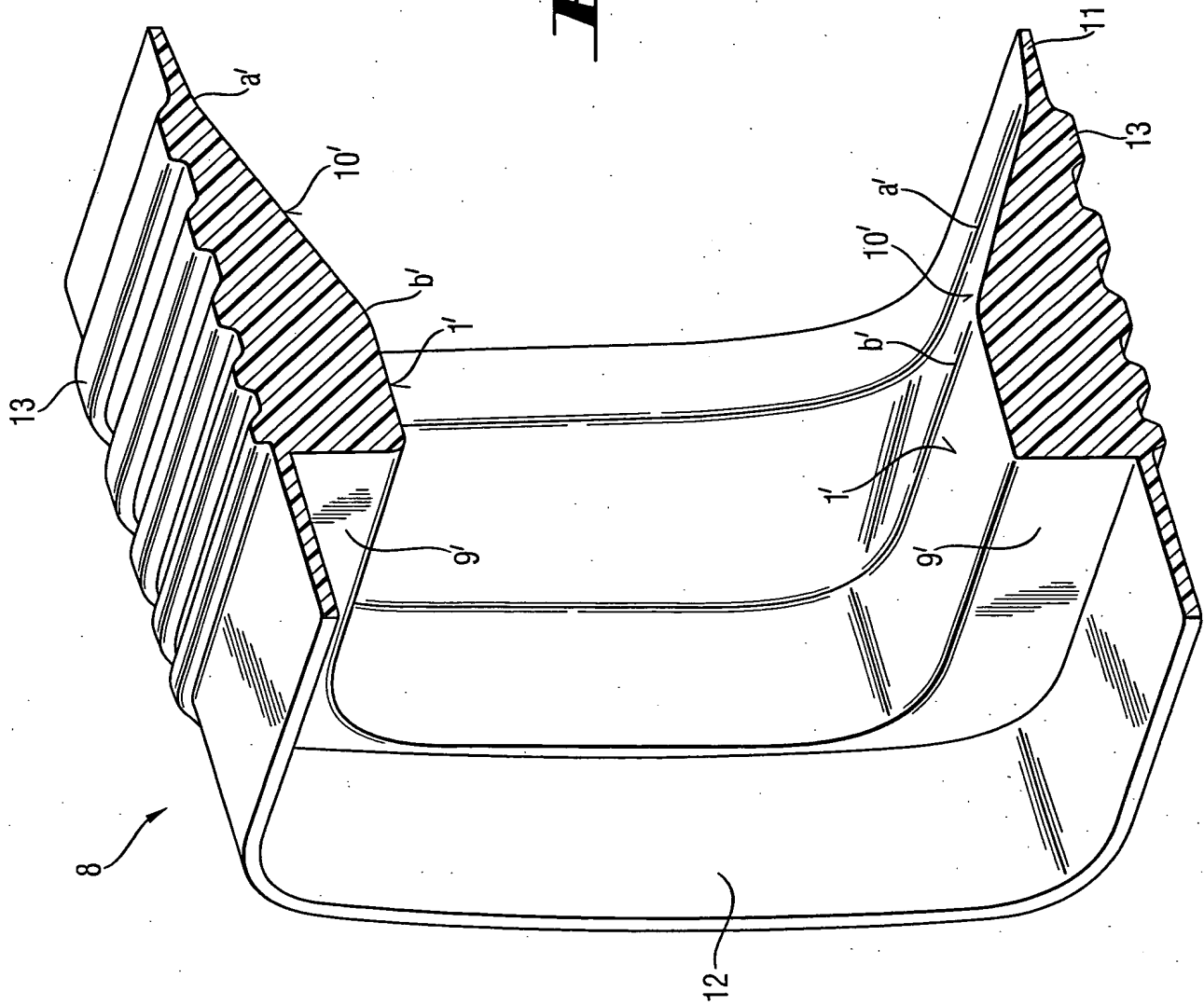


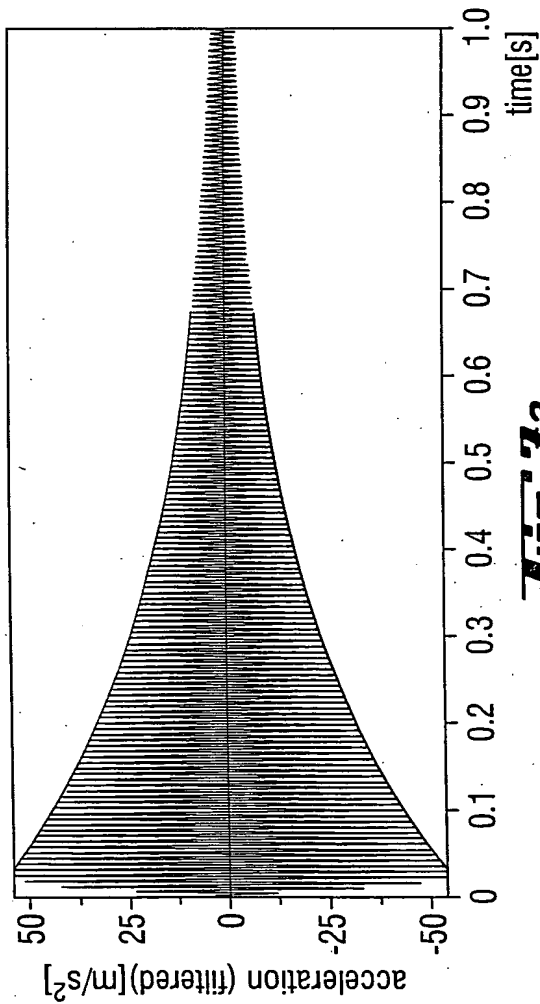
Fig. 5

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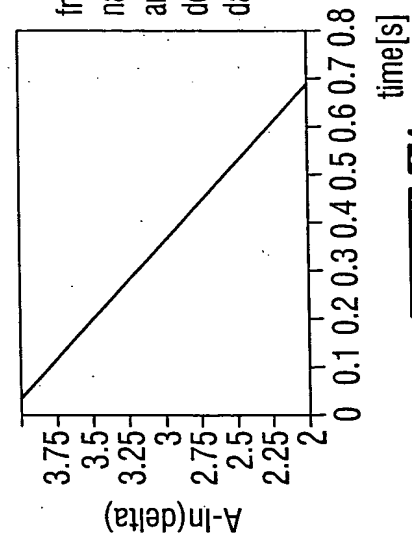
Fig. 6



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Fig. 7Handle with damping**Fig. 7a**

damping ratio, calculated on the basis of a filtered signal



free vibration
 natural frequency 156.9 Hz
 amplitude 10.34
 delta = 3.07
 damping ratio = 0.0031

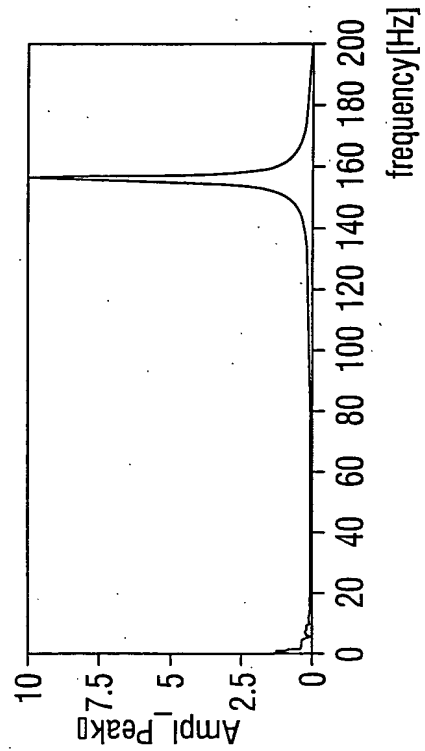
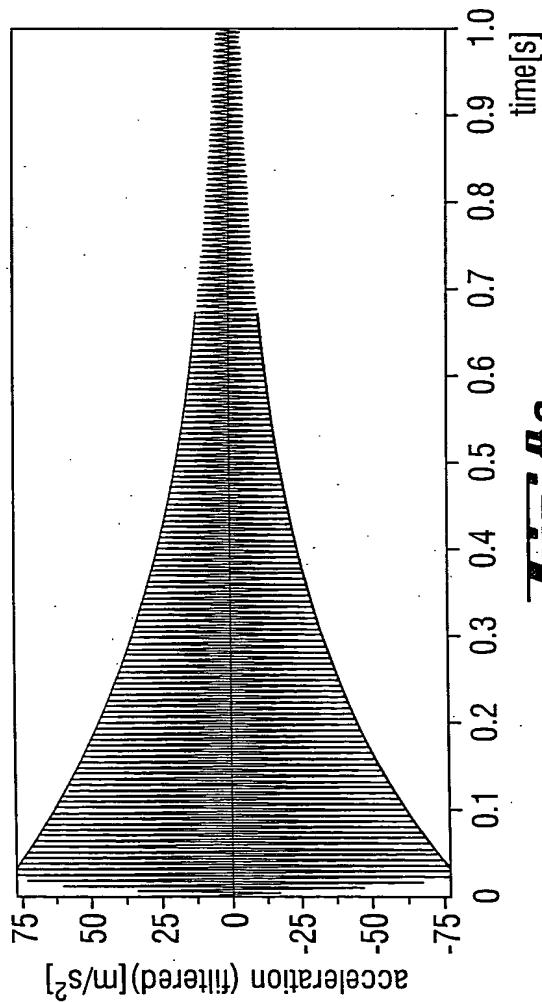
Fig. 7b**Fig. 7c**

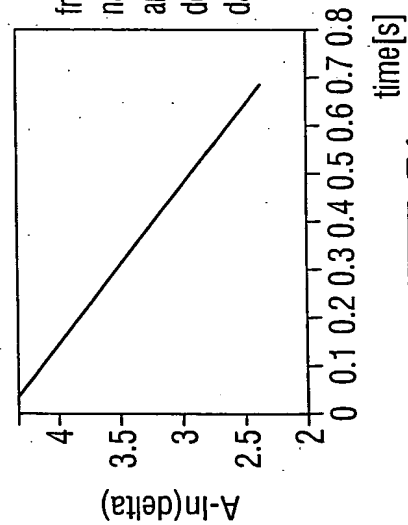
Fig. A



Handle without dampening

Fig. Ba

dampening ratio, calculated on the basis of a filtered signal



free vibration
natural frequency 155.6 Hz
amplitude 16.04
delta=3.10
dampening ratio=0.0032

Fig. Bb

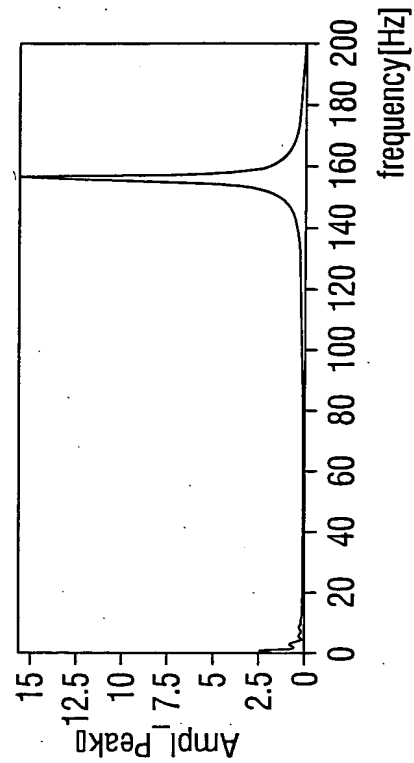
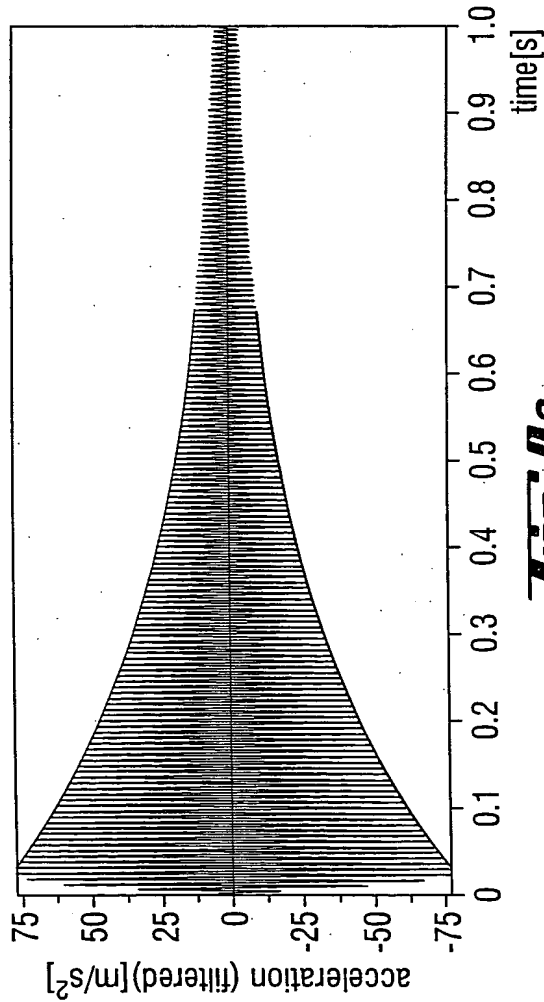


Fig. Bc

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Fig. 9



Fork with dampening

Fig. 9a

dampening ratio, calculated on the basis of a filtered signal

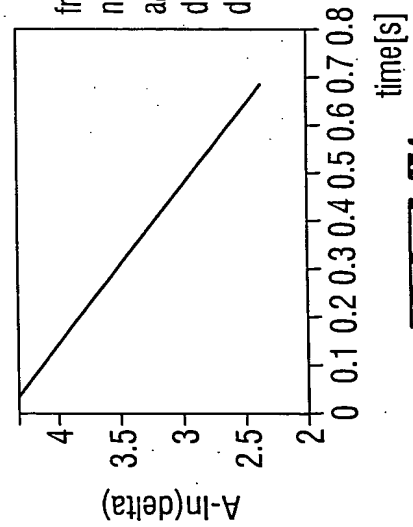


Fig. 9b

free vibration
natural frequency 156.9 Hz
amplitude 15.60
 $\delta = 3.05$
dampening ratio = 0.0031

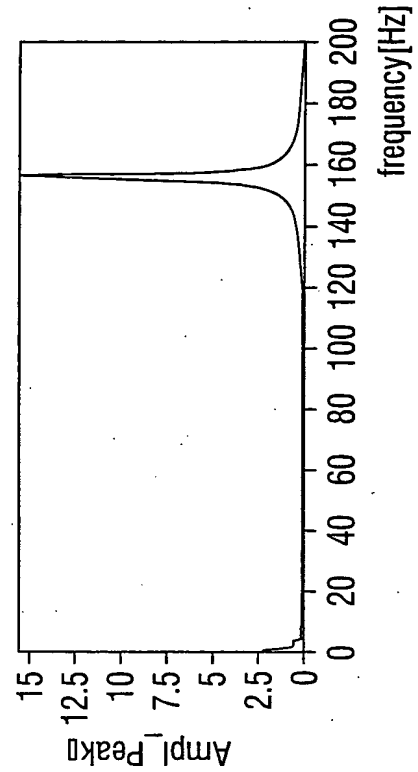
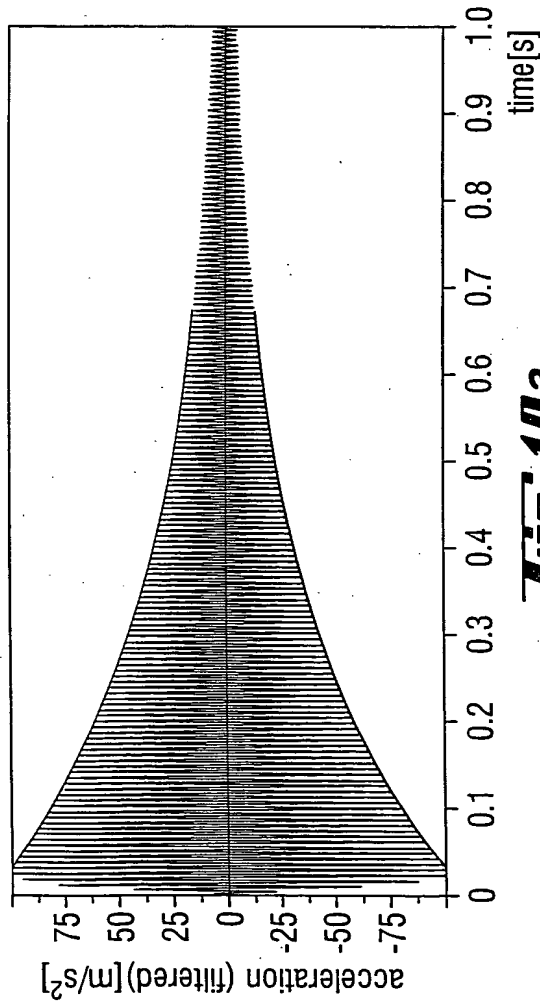


Fig. 9c

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Fig. 10



Fork without dampening

Fig. 10a

dampening ratio, calculated on the basis of a filtered signal

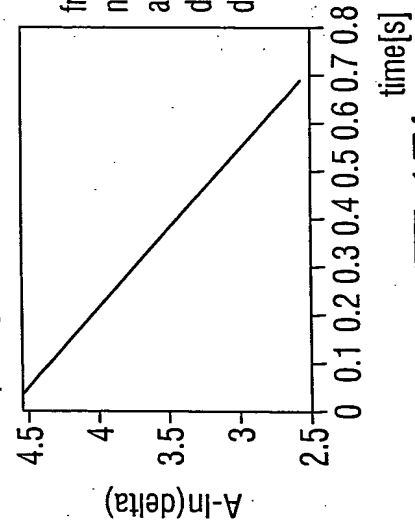


Fig. 10b

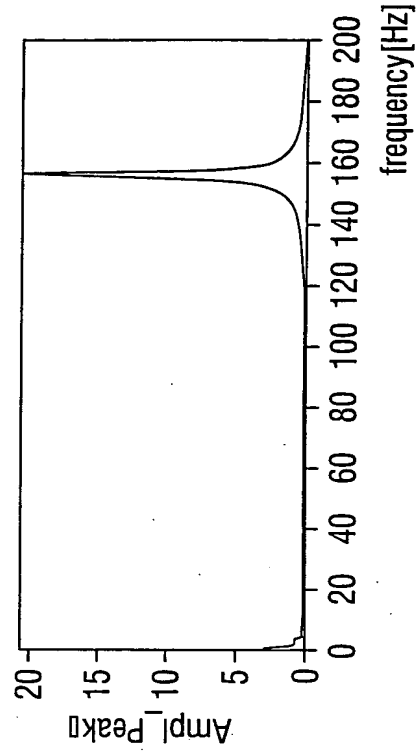


Fig. 10c

Fig. 11